

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE  
(Attorney Docket No. 19215US02)**

In the Application of:

Mark F. Pittenger, et al.

U.S. Serial No.: 10/690,435

Filed: October 21, 2003

For: Cardiac muscle regeneration using  
mesenchymal stem cells

Examiner: Fereydoun G. Sajjadi

Group Art Unit: 1633

Confirmation No.: 3718

Electronically Filed on September 10, 2008

**AMENDMENT AND RESPONSE UNDER 37 CFR § 1.111**

Mail Stop Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Examiner Sajjadi:

This communication is being submitted in response to the non-final Office Action mailed on August 18, 2008. This response is timely because it is filed within three months of the mailing date of the Office Action.

Please amend the application as follows:

**Amendments to the Claims** begin on page 2; and

**Remarks** begin on page 4.